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# East Oregonian

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## EDISON TELLS OF EARLY DAYS OF THE RADIO-PHONE; TOOK OUT PATENT ON WIRELESS

The radio telephone is one of the most spectacular of modern inventions. Nothing about the radio phone, however, is more marvelous than the story of its beginning and its development.

The chain of events that produced the radio-phone began with the discovery by Thomas A. Edison of a thin white streak on an electric light globe. That was back in 1883. Allan L. Benson tells the story in the July number of *Hearst's International Magazine*.

While Thomas A. Edison's name is not popularly associated with radio developments, Mr. Benson rather suspected that the wizard of Menlo Park probably had something to do with the wireless marvel at some period in its history. He, therefore, proceeded to get the facts.

"Edison Effect" Seen  
"It was in 1883," said Edison, while we were talking in his laboratory at Orange, N. J., "that I observed what scientists afterwards designated as the 'Edison effect,' upon which the radiophone is based. An 'effect' is a term applied by physicists to a new phenomenon that cannot be explained by existing theories. While working on my carbon incandescent lamp, I observed that each bulb, after it had burned for some time, was blackened inside except for a thread-like streak opposite one leg of the filament.

"The streak of clear glass interested me because I could not understand it. So far as I knew, there was no reason why it should be there. As I studied it, I observed that the streak was always nearest to the leg of the filament that was connected with the positive side of the circuit. It was as if this leg were casting a shadow. I finally decided that the negative leg of the filament was throwing off particles of carbon that blackened all of the interior of the bulb except the thin line on the opposite side which was shielded by the other leg of the filament."

Took Out Patent  
Edison took out a patent for a wireless telegraph in 1881. A number of years before that he had taken out

a patent on an electric valve without which no wireless instrument that is now in use would work. In his patent application, filed more than thirty years ago, Edison declared:

"I have discovered that if sufficient elevation be obtainable to overcome the curvature of the earth's surface and to reduce to the minimum the earth's absorption, electric telegraphing or signalling between distant points can be carried on by induction without the use of wires connecting such distant points. This discovery is especially applicable to telegraphing across bodies of water, thus avoiding the use of submarine cables, or for communicating between vessels at sea, or between vessels at sea and points on land; but it is also applicable to electric communication between distant points on land."

Being busy with the development of incandescent lighting, Mr. Edison sold his wireless patents to Marconi.

Radio Phone Built Up  
It would be as difficult to say who invented the radio-phone now in popular use as it would be to say who invented the automobile.

"It was built up," said Edison. Lee DeForest probably had more to do than did any other one man with the development of wireless telephony. He introduced into the lamp between the plate and the filament a little device by means of which the rate of passage of the electrons may be controlled.

DeForest Admitted  
Edison pointed to a diagram to the little sieve and said: "It is a beautiful invention." It was plain from the way he said it that DeForest had done something that elicited his admiration. John J. Carty, Chief Engineer of the American Telegraph and Telephone Company, is the great technician of the radio-phone. He has taken the invention and made it work. He it was, who, in November, 1921, enabled crowds in New York, San Francisco, and every great city between those points, to hear President Harding's address as part of the cere-

## Littlest Girl Story-Teller



Betty Culick, 10, started telling good-night stories to children when she was four. And here she is making a phonograph record, directed by W. S. Darby, recording engineer.

## CLOTHES COUNCIL IS FORMED BY STUDENTS OF DETROIT SCHOOL

DETROIT, June 27.—There's no powder or paint on the faces of girls in Central High School's House of Victory, a student government organization.

Because of faculty ban?  
Far from it. The girls themselves have voted it out.

Bobbed hair there is and plenty of it.

"More hygienic than those awful buns the girls used to wear," says Mrs. Grace Jones, principal of the House of Victory.

"You can't handle the modern girl by telling her what to do, much less what not to do," Mrs. Jones declares.

"We have long realized that at Central, and in consequence have developed open student government. They tell themselves what to do and therefore do it."

Before Mrs. Jones half a hundred schoolgirls heads, many of them bobbed, were bent over lessons.

"You won't find powder or paint here," declared Mrs. Jones. "As for bobbed hair, there is no objection to that. It is certainly more sanitary than buns."

"One of the girls came to school one day wearing knickers. 'This student government decided that her dress was inappropriate for school wear and so informed her. She did not wear the tabooed garment again.'"

An open forum is held by the house every Thursday, where discussions include such questions as gum chewing, dress and street car manners. The consensus of opinion is taken by house members as a guide. The house is governed independently by its own staff of officers—president, vice-president, secretary, treasurer and a student council.

## FATE OF SENATOR M'CUMBER IN HANDS OF VOTERS TODAY

BY GEORGE R. HALMES,  
(International News Service Staff Correspondent.)

WASHINGTON, June 27.—One of the oldest Republican Senators in Washington, in point of service, is battling for his political life today, and the result is of far-reaching importance to Washington. He is Porter J. McCumber, who for twenty-three years has represented North Dakota in the Senate, and in that time has risen to the eminent position of successor to the late Boies Penrose as chairman of the powerful Senate Committee on Finance.

McCumber's defeat in today's primaries is considered more than a probability in Washington. Reports have sifted into the capital that this year is to see the Non-partisan League accomplish the downfall of the blond North Dakotan, after years of unsuccessful effort. The league has put against him in today's primaries its leader, ex-Governor Lynn J. Frazier. There are several other candidates, among them Ormsby MacHarg, a former Roosevelt lieutenant.

According to the political wheeler of the capital, the issue is a clean one between McCumber and Frazier, with MacHarg not figuring as a candidate of importance other than that he may pick up votes that might otherwise go to McCumber. The contest between Frazier and McCumber is generally conceded to be very close.

Weather May Aid McCumber  
"A good deal depends on the weather, as it always does in an agricultural State," said a political sage a few days ago. "If it rains and the farmers go to the polls it looks like McCumber is licked; if it's good weather and they stay in the fields to work he may come through with a handsome majority."

Frazier has had all the best of it so far as opportunity to get in hard campaigning is concerned. Because of his position as chairman of the Finance Committee, and its attendant duties of piloting Administration measures through the recalcitrant sixty-seventh Congress, McCumber has been held in Washington for weeks past, while Frazier has had a clear field for the advancement of his cause in direct contact with the voters.

Official Interest Keen  
It would be difficult to overestimate the interest which official Washington, from President Harding down, feels in today's contest in North Dakota.

McCumber has been one of the chief framers and the boss pilot of the pending Republican tariff bill, which imposes the highest rates since the Payne-Aldrich bill. He has been one of the principal framers and the boss pilot of the soldier bonus bill which bears his name.

A defeat for McCumber today would be interpreted by many political observers in Washington as indicating the farmers' dissatisfaction with the pending high tariff bill. A victory for McCumber would be interpreted by the same observers as meaning agricultural approval of the measure.

The bonus does not enter into the controversy to so great a degree, because all sides in North Dakota have been warm to the cause of the bonus.

Nomination Means Election  
Nomination in North Dakota this year is generally accounted by political leaders here as equivalent to election, although the Democrats are reported to have a strong candidate in the person of J. T. O'Connor, a Yale graduate and a shrewd politician.

A Frazier victory would be accepted in Washington as another link in

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## FAMOUS FRENCH HOTEL IS OFFERED FOR SALE

PARIS, June 27.—The Hotel de la Paiva, last of the mansions on the Champs Elysee that made that boulevard the centre of Paris during the reign of Emperor Napoleon III, has been put on the market. Friends of old Paris fear the building will be torn down, following the fate, one after another, of the palaces of Prince Napoleon, of Jules de Lesseps, of the Duke of Brunswick, of Emile de Girardin, and of the Count of Quinsonas.



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